



PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

October 31, 2005  
Date

*Denise Sheridan*  
Denise Sheridan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Joseph M. Jeddeloh Attorney Docket No.: 33582/US  
Serial No. : 10/812,950 Group Art Unit : 2182  
Filed : March 29, 2004 Examiner : Christopher B. Shin  
Confirmation No.: 4911  
Title : MEMORY HUB AND METHOD FOR PROVIDING MEMORY SEQUENCING HINTS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. Copies of the cited U.S. patents and U.S. patent application publications will not be submitted herewith in accordance with the waiver by the Office of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for U.S. national patent applications filed after June 30, 2003. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 11/139,274, describing and claiming subject matter that is similar to the subject matter of this application, was filed on May 27, 2005. This related application, as well as

any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 11/065,990, describing and claiming subject matter that is similar to the subject matter of this application, was filed on February 24, 2005. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

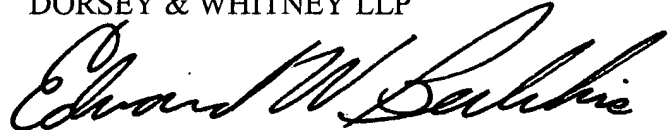
Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/932,477, describing and claiming subject matter that is similar to the subject matter of this application, was filed on September 1, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Applicant also wishes to make known to the Patent and Trademark Office that an application, Serial No. 10/931,326, describing and claiming subject matter that is similar to the subject matter of this application, was filed on August 31, 2004. This related application, as well as any prior art cited therein, may be material to the examination of this application. A copy of this related application as filed is submitted herewith in accordance with 37 C.F.R. § 1.98(d).

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

A handwritten signature in black ink, appearing to read "Edward W. Bulchis". The signature is fluid and cursive, with the first name "Edward" being the most prominent part.

Edward W. Bulchis  
Registration No. 26,847

EWB:dms

Enclosures:

Postcard  
Form PTO-1449  
Copies of Related Applications (4)

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Facsimile (206) 903-8820

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
33582/USAPPLICATION NO.  
10/812,950

## INFORMATION DISCLOSURE STATEMENT

(Add references if necessary)

APPLICANT(S)

Joseph M. Jeddeloh

FILING DATE

March 29, 2004

GROUP ART UNIT

2182

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,742,253	06/26/73	Kronies	307	247	
	AB	4,608,702	08/26/86	Hirzel et al.	375	110	
	AC	4,831,520	05/16/89	Rubinfeld et al.	364	200	
	AD	4,891,808	01/02/90	Williams	370	112	
	AE	5,313,590	05/17/94	Taylor	395	325	
	AF	5,327,553	07/05/94	Jewett et al.	395	575	
	AG	5,638,534	06/10/97	Mote, Jr.	395	485	
	AH	5,687,325	11/11/97	Chang	395	284	
	AI	5,706,224	01/06/98	Srinivasan et al.	365	49	
	AJ	5,710,733	01/20/98	Chengson et al.	365	52	
	AK	5,748,616	05/05/98	Riley	370	242	
	AL	5,796,413	08/18/98	Shipp et al.	345	522	
	AM	5,887,159	03/23/99	Burrows	395	567	
	AN	6,011,741	01/04/00	Wallace et al.	365	221	
	AO	6,038,630	03/14/00	Foster et al.	710	132	
	AP	6,067,649	05/23/00	Goodwin	714	718	
	AQ	6,092,158	07/18/00	Harriman et al.	711	151	
	AR	6,128,703	10/03/00	Bourekas et al.	711	138	
	AS	6,131,149	10/10/00	Lu et al.	711	167	
	AT	6,185,676 B1	02/06/01	Poplingher et al.	712	239	
	AU	6,208,180 B1	03/27/01	Fisch et al.	327	141	
	AV	6,219,725 B1	04/17/01	Diehl et al.	710	26	
	AW	6,223,301 B1	04/24/01	Santeler et al.	714	6	
	AX	6,286,083 B1	09/04/01	Chin et al.	711	151	

EXAMINER

DATE CONSIDERED

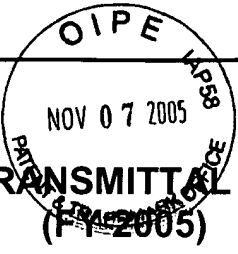
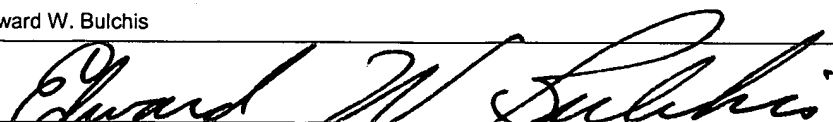
\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 33582/US	APPLICATION NO. 10/812,950
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANT(S) <b>Joseph M. Jeddeloh</b>	
		FILING DATE March 29, 2004	GROUP ART UNIT 2182

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AY	6,370,611 B1	04/09/02	Callison et al.	711	105	
	AZ	6,389,514 B1	05/14/02	Rokicki	711	136	
	BA	6,433,785 B1	08/13/02	Garcia et al.	345	531	
	BB	6,460,114 B1	10/01/02	Jeddeloh	711	120	
	BC	6,487,556 B1	11/26/02	Downs et al.	707	101	
	BD	6,493,803 B1	12/10/02	Pham et al.	711	147	
	BE	6,496,193 B1	12/17/02	Surti et al.	345	552	
	BF	6,526,483 B1	02/25/03	Cho et al.	711	154	
	BG	6,564,329 B1	05/13/03	Cheung et al.	713	322	
	BH	6,647,470 B1	11/11/03	Janzen	711	154	
	BI	6,665,202 B2	12/16/03	Lindahl et al.	365	49	
	BJ	6,785,780 B1	08/31/04	Klein et al.	711	148	
	BK	6,889,304 B2	05/03/05	Perego et al.	711	170	
	BL	6,910,109 B2	06/21/05	Holman et al.	711	156	
	BM	2002/0178319 A1	11/28/02	Sanchez-Olea	710	305	
	BN	2003/0217223 A1	11/20/03	Nino, Jr., et al.	711	105	
	BO	2003/0227798 A1	12/11/03	Pax	365	189.12	
	BP	2003/0229762 A1	12/11/03	Maiyuran et al.	711	137	
	BQ	2004/0044833 A1	03/04/04	Ryan	711	5	
	BR	2004/0064602 A1	04/01/04	George	710	22	
	BS	2005/0044327 A1	02/24/05	Howard et al.	711	147	

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

<div style="display: flex; justify-content: center; align-items: center;"> <div style="text-align: center;">  <p><b>FEE TRANSMITTAL SHEET</b> (F-12005)</p> </div> </div>		<b>Complete if Known</b>																																																																																																									
		Application No.	10/812,950																																																																																																								
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		Examiner Name	Christopher B. Shin																																																																																																								
<input type="checkbox"/> Applicant claims small entity status (see 37 C.F.R. 1.27)		Atty. Docket Number	33582/US																																																																																																								
<b>METHOD OF PAYMENT (Check One)</b>		<b>FEE CALCULATION (Continued)</b>																																																																																																									
<input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No. <b>50-1266</b> ; Deposit Account Name: <b>DORSEY &amp; WHITNEY LLP</b> .  <input checked="" type="checkbox"/> Check Enclosed.		<b>3. ADDITIONAL FEES</b>																																																																																																									
<b>Extra Claim Fees</b>																																																																																																											
<table border="0" style="width:100%;"> <tr> <td style="width:15%;">Current Claims</td> <td style="width:10%;">Prior</td> <td style="width:10%;">Extra</td> <td style="width:10%;">Fee</td> <td style="width:10%;">Fee Paid</td> </tr> <tr> <td>Total <u>10</u></td> <td>- <u>42</u></td> <td>= <u>0</u></td> <td>x <u>\$ 50</u></td> <td>= <u>\$ 0</u></td> </tr> <tr> <td>Ind. <u>1</u></td> <td>- <u>4</u></td> <td>= <u>0</u></td> <td>x <u>\$ 200</u></td> <td>= <u>\$ 0</u></td> </tr> <tr> <td colspan="3">Multiple Dependent Claims</td> <td>x <u>\$</u></td> <td>= <u>\$</u></td> </tr> <tr> <td colspan="3" style="text-align: right;"><b>Subtotal (Extra Claims)</b></td> <td></td> <td><b><u>\$ 0</u></b></td> </tr> </table>		Current Claims	Prior	Extra	Fee	Fee Paid	Total <u>10</u>	- <u>42</u>	= <u>0</u>	x <u>\$ 50</u>	= <u>\$ 0</u>	Ind. <u>1</u>	- <u>4</u>	= <u>0</u>	x <u>\$ 200</u>	= <u>\$ 0</u>	Multiple Dependent Claims			x <u>\$</u>	= <u>\$</u>	<b>Subtotal (Extra Claims)</b>				<b><u>\$ 0</u></b>																																																																																	
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<b>Petition Fee Under 37 CFR 1.17(f), (g), &amp; (h)</b>																																																																																																											
Enclosed is a Petition filed under 37 CFR as indicated below: <input type="checkbox"/> Petition Fee under 37 CFR 1.17(f) <span style="float: right;"><b>Fee \$400</b></span> § 1.53(e) to accord a filing date. § 1.57(a) to accord a filing date. § 1.182 for decision on a question not provided for. § 1.183 to suspend the rules. § 1.378(e) for reconsideration of decision on petition refusing delayed payment of maintenance fee in expired patent. § 1.174(b) to accord a filing date to an application under §1.740 for extension of patent term.  <input type="checkbox"/> Petition Fee under 37 CFR 1.17(g) <span style="float: right;"><b>Fee \$200</b></span> § 1.12 for access to an assignment record. § 1.14 for access to an application. § 1.47 for filing by other than all inventors or person not the inventor. § 1.59 for expungement of information. § 1.103(a) to suspend action in an application. § 1.136(b) for review of a request for ext. of time when §1.136(a) not avail. § 1.295 for review of refusal to publish a statutory invention registration. § 1.296 to withdraw a req. for pub. after notice of intent to publish issued. § 1.377 for review of decision refusing to accept a maintenance fee filed prior to expiration of a patent. § 1.550(c) for request for ext. of time in <i>ex parte</i> reexam. proceedings. § 1.956 for request for ext. of time in <i>ex parte</i> reexam. proceedings. § 5.12 for expedited handling of foreign filing license. § 5.15 for changing the scope of a license. § 1.5.25 for retroactive license.  <input type="checkbox"/> Petition Fee under 37 CFR 1.17(h) <span style="float: right;"><b>Fee \$130</b></span> § 1.19(g) to request documents in a form other than provided in this part. § 1.84 for accepting color drawings or photographs. § 1.91 for entry of a model or exhibit. § 1.102(d) to make an application special. § 1.138(c) to expressly abandon an application to avoid publication. § 1.313 to withdraw an application from issue. § 1.314 to defer issuance of a patent.																																																																																																											
		<table border="0" style="width:100%;"> <tr> <td style="width:10%;">Large Entity Fee</td> <td style="width:10%;">Small Entity Fee</td> <td style="width:60%;">Fee Description</td> <td style="width:20%;">Fee paid</td> </tr> <tr> <td>50</td> <td>25</td> <td>Surcharge – late provisional filing fee or cover sheet</td> <td>\$</td> </tr> <tr> <td>130</td> <td>65</td> <td>Surcharge – Late nonprovisional filing fee or oath</td> <td>\$</td> </tr> <tr> <td>180</td> <td>180</td> <td>Submission of IDS</td> <td>\$180</td> </tr> <tr> <td>40</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td>\$</td> </tr> <tr> <td>120</td> <td>60</td> <td>Extension for reply within first month</td> <td>\$</td> </tr> <tr> <td>450</td> <td>225</td> <td>Extension for reply within second month</td> <td>\$</td> </tr> <tr> <td>1,020</td> <td>510</td> <td>Extension for reply within third month</td> <td>\$</td> </tr> <tr> <td>1,590</td> <td>795</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td>2,160</td> <td>1,080</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td>790</td> <td>395</td> <td>Submission After Final 1.129</td> <td>\$</td> </tr> <tr> <td>500</td> <td>250</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td>500</td> <td>250</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td>1,000</td> <td>500</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td>130</td> <td>65</td> <td>Terminal Disclaimer Fee</td> <td>\$</td> </tr> <tr> <td>800</td> <td>400</td> <td>Design Issue Fee</td> <td>\$</td> </tr> <tr> <td>790</td> <td>395</td> <td>Request for Continued Examination (RCE)</td> <td>\$</td> </tr> <tr> <td>130</td> <td></td> <td>Request for voluntary publication or republication</td> <td>\$</td> </tr> <tr> <td>500</td> <td>250</td> <td>Petition to Revive – unavoidable</td> <td>\$</td> </tr> <tr> <td>1,500</td> <td>750</td> <td>Petition to Revive – unintentional</td> <td>\$</td> </tr> <tr> <td>200</td> <td></td> <td>Filing for patent term adjustment</td> <td>\$</td> </tr> <tr> <td>400</td> <td></td> <td>Request for reinstatement of term reduced</td> <td>\$</td> </tr> <tr> <td>1,120</td> <td></td> <td>Extension of term of patent</td> <td>\$</td> </tr> <tr> <td colspan="2">OTHER FEE (specify)</td> <td></td> <td>\$</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;"><b>Subtotal (Additional Fees)</b></td> <td><b>\$180</b></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;"><b>Total Amount of Payment:</b></td> <td><b>\$180</b></td> </tr> </table>		Large Entity Fee	Small Entity Fee	Fee Description	Fee paid	50	25	Surcharge – late provisional filing fee or cover sheet	\$	130	65	Surcharge – Late nonprovisional filing fee or oath	\$	180	180	Submission of IDS	\$180	40	40	Recording each patent assignment per property (times number of properties)	\$	120	60	Extension for reply within first month	\$	450	225	Extension for reply within second month	\$	1,020	510	Extension for reply within third month	\$	1,590	795	Extension for reply within fourth month	\$	2,160	1,080	Extension for reply within fifth month	\$	790	395	Submission After Final 1.129	\$	500	250	Notice of Appeal	\$	500	250	Filing a brief in support of an appeal	\$	1,000	500	Request for oral hearing	\$	130	65	Terminal Disclaimer Fee	\$	800	400	Design Issue Fee	\$	790	395	Request for Continued Examination (RCE)	\$	130		Request for voluntary publication or republication	\$	500	250	Petition to Revive – unavoidable	\$	1,500	750	Petition to Revive – unintentional	\$	200		Filing for patent term adjustment	\$	400		Request for reinstatement of term reduced	\$	1,120		Extension of term of patent	\$	OTHER FEE (specify)			\$			<b>Subtotal (Additional Fees)</b>	<b>\$180</b>			<b>Total Amount of Payment:</b>	<b>\$180</b>
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Name: Edward W. Bulchis			Reg. No.: 26,847																																																																																																								
Signature: 			Date: <u>Oct. 28, 2005</u>																																																																																																								